

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/787,083

DATE: 03/28/2001  
TIME: 17:31:39

Input Set : A:\seqlist.txt  
Output Set: N:\CRF3\03282001\I787083.raw

ENTERED

4 <110> APPLICANT: Ruelle, Jean-Louis  
6 <120> TITLE OF INVENTION: Novel Compounds  
9 <130> FILE REFERENCE: BM45332  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/787,083  
C--> 11 <141> CURRENT FILING DATE: 2001-03-14  
11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/06781  
12 <151> PRIOR FILING DATE: 1999-09-14  
14 <150> PRIOR APPLICATION NUMBER: GB 9820002.5  
15 <151> PRIOR FILING DATE: 1998-09-14  
17 <160> NUMBER OF SEQ ID NOS: 13  
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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23 <212> TYPE: DNA  
24 <213> ORGANISM: Moraxella catarrhalis  
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29 aatgatcttg ggcaagacaa tgaattacc attgatgtcc aaagtgcgac acaatcagcg 180  
30 tctactgata cggctaattc tttagacgaa catgaaccag agctttatac gacagcttta 240  
31 gaaaataaaa ccatgctgat taactgctca gcacttaatc aagatatcat gcgtttggcg 300  
32 tgctatgaca ctttggtgca tggtagagcg ccagcggtaa ttaaaaccaa gcgttccatt 360  
33 cgccttgatg aaacaatttg gcagaccatc aaaggcaaac cccaggttat ctatcaagaa 420  
34 acgacagatc cgattttttt aatgggtaac gaaaagggca tgctgaccaa aaaagatgcc 480  
35 aaacagcttg aatatgcgc caaacagttt acaccactga gcttatcatt tgatttagac 540  
36 cgaaataata caccactttg gtcacacga ccacacaatc cgatgtatgt attgccata 600  
37 tttatgcacg gtaagcctaa tcgaagcca aatacgcca gtcatgaagc aaaacaattt 660  
38 accccaaatg aatttcgtgc tcccagcta aaatttcagg tttctgttaa ggtaaagct 720  
39 gctgaggatt tatgggggac ggattcagat ttatggtttg gatatacaca gcaatcgac 780  
40 tggcagattt ttaattgaaa aaactctcgt ctttttagag tacatgacta ccagccagag 840  
41 attttcttaa ctcaacctgt atactcagac ttaccatggg atggcaagat ccgcatgatt 900  
42 ggcatgggtg cggtagatca ttccaatggg gaaagtgcc aactgtctcg ctcatggaat 960  
43 cgtgcttatt tgatggcagg catggaatgg aaaaacctga ctgtcatgcc acgcatttgg 1020  
44 gggcgtatct ttaaagagg tagtggcagc cagccagatg ataactctga tatcttgac 1080  
45 tattatggtt atggtgatgt gcgtttttta tatcaactag aaaataaaag taatatttca 1140  
46 ggtacggtag gctataatcc acgctcagcg aaaggtgcgt tgcaacttga ctatgtctat 1200  
47 ccgcttggtg aggggaattg tggctatttt caaatatttc aaggctatgg gcagtccttg 1260  
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52 <211> LENGTH: 442  
53 <212> TYPE: PRT  
54 <213> ORGANISM: Moraxella catarrhalis  
56 <400> SEQUENCE: 2  
57 Met Lys Val Ser Leu Ser Thr Leu Thr Leu Ser Ile Leu Ser Cys Phe  
58 1 5 10 15  
59 Ala Ile Leu Ala Ile Gln Gln Ala Gln Ala Val Pro Asn Pro Val Ala

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60		20		25		30
61	Phe Val Asp	Glu Val Arg Ser	Glu Asn Asp	Leu Gly Gln	Asp Asn Glu	
62		35		40		45
63	Leu Pro Ile	Asp Val Gln Ser	Ala Thr Gln Ser	Ala Ser Thr	Asp Thr	
64		50		55		60
65	Ala Asn Pro	Leu Asp Glu His	Glu Pro Glu Leu	Tyr Thr Thr	Ala Leu	
66	65		70		75	80
67	Glu Asn Lys	Thr Met Leu Ile	Asn Cys Ser	Ala Leu Asn	Gln Asp Ile	
68		85		90		95
69	Met Arg Leu	Ala Cys Tyr Asp	Thr Leu Val His	Gly Glu Thr	Pro Ala	
70		100		105		110
71	Val Ile Lys	Thr Lys Arg Ser	Ile Arg Leu Asp	Glu Thr Ile	Trp Gln	
72		115		120		125
73	Thr Ile Lys	Gly Lys Pro Gln	Val Ile Tyr Gln	Glu Thr Thr	Asp Pro	
74		130		135		140
75	Ile Phe Leu	Met Gly Asn Glu	Lys Gly Met Leu	Thr Lys Lys	Asp Ala	
76	145		150		155	160
77	Lys Gln Leu	Glu Tyr Ala Ala	Lys Gln Phe Thr	Pro Leu Ser	Leu Ser	
78		165		170		175
79	Phe Asp Leu	Asp Arg Asn Asn	Thr Pro Leu Trp	Ser Ser Arg	Pro His	
80		180		185		190
81	Asn Pro Met	Tyr Val Leu Pro	Ile Phe Met His	Gly Lys Pro	Asn Arg	
82		195		200		205
83	Ser Pro Asn	Thr Pro Ser His	Glu Ala Lys Gln	Phe Thr Pro	Asn Glu	
84		210		215		220
85	Phe Arg Ala	Pro Glu Leu Lys	Phe Gln Val Ser	Val Lys Val	Lys Ala	
86	225		230		235	240
87	Ala Glu Asp	Leu Trp Gly Thr	Asp Ser Asp Leu	Trp Phe Gly	Tyr Thr	
88		245		250		255
89	Gln Gln Ser	His Trp Gln Ile	Phe Asn Gly Lys	Asn Ser Arg	Pro Phe	
90		260		265		270
91	Arg Val His	Asp Tyr Gln Pro	Glu Ile Phe Leu	Thr Gln Pro	Val Tyr	
92		275		280		285
93	Ser Asp Leu	Pro Trp Asp Gly	Lys Val Arg Met	Ile Gly Met	Gly Ala	
94		290		295		300
95	Val His His	Ser Asn Gly Glu	Ser Ala Lys Leu	Ser Arg Ser	Trp Asn	
96	305		310		315	320
97	Arg Ala Tyr	Leu Met Ala Gly	Met Glu Trp Lys	Asn Leu Thr	Val Met	
98		325		330		335
99	Pro Arg Ile	Trp Gly Arg Ile	Phe Lys Glu Gly	Ser Gly Ser	Gln Pro	
100		340		345		350
101	Asp Asp Asn	Pro Asp Ile Leu	Asp Tyr Tyr Gly	Tyr Gly Asp	Val Arg	
102		355		360		365
103	Phe Leu Tyr	Gln Leu Glu Asn	Lys Ser Asn Ile	Ser Gly Thr	Val Arg	
104		370		375		380
105	Tyr Asn Pro	Arg Ser Gly Lys	Gly Ala Leu Gln	Leu Asp Tyr	Val Tyr	
106	385		390		395	400
107	Pro Leu Gly	Lys Gly Ile Ser	Gly Tyr Phe Gln	Ile Phe Gln	Gly Tyr	
108		405		410		415

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109 Gly Gln Ser Leu Ile Asp Tyr Asn His Glu Ala Thr Ser Phe Gly Val
110          420          425          430
111 Gly Leu Met Leu Asn Asp Trp Met Gly Leu
112          435          440
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 1329
116 <212> TYPE: DNA
117 <213> ORGANISM: Moraxella catarrhalis
119 <400> SEQUENCE: 3
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121 attcagcaag cacaagctgt accaaatcct gtggcatttg ttgacgaagt acgcagtaaa      120
122 aatgatcttg ggcaagacaa tgaattactc attggtgtac aaagtgcgac acaatcagcg      180
123 tctactgata cggctaatac tttagacgaa catgaaccag agctttatac gacagcttta      240
124 gaaaataaaa ccatgctgat taactgctca gcacttaatc aagatatcat gcgtttggcg      300
125 tgctatgaca ctttggtgca tggtagagcg ccagcggtaa ttaaaaccaa gcgttcatt      360
126 cgcccttgatg aaacaatttg gcagaccatc aaaggcaaac ccaggttgt ctatcaagaa      420
127 acgacagatc cgattttttt aatgggtaac gaaaaaggca tgctgaccaa aaaagatgcc      480
128 aaacagcttg aatatgcagc caaacagttt acaccactga gcttatcatt tgatttagac      540
129 cgaaataata caccgctttg gtcacacga ccacacaatc cgatgtatgt attgccata      600
130 tttatgcacg gtaagcctaa tcgaagccca aatacgccca gtcatgaagc aagacaattt      660
131 accccaaatg aatttcgtgc ccctgaatta aaatttcaag tttctgttaa ggttaaagct      720
132 gctgaggatt tatgggggac ggattcagat ttatggtttg ggtatacaca gcaatcgac      780
133 tggcagattt ttaatggaaa aaactctcgt ctttttagag tacatgatta ccagccagag      840
134 attttcttaa ctcaacctgt gtactcagac ttaccatggg atggcaaagt ccgcatgatt      900
135 ggcatgggtg cggtagatca ttccaatggt gaaagtgcc aactgtctcg ctcatggaat      960
136 cgtgcttatt tgatggcagg catggaatgg aaaaacctga ctgtcatgcc acgcatttgg      1020
137 gggcgatatc ttaaagaggg tagtggcagc cagccagatg acaatcctga tatcttggac      1080
138 tattatggtt atggtgatgt gcgtttttta tatcaactag aaaaataaag taatatttca      1140
139 ggtacggtac gctataatcc acgctcaggc aaaggtgcgt tgcaacttga ctatgtctat      1200
140 ccgcttggtg aggggaattag tggctatttt caaatatttc aaggctatgg gcagtctttg      1260
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142 ggtctataa                                     1329
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145 <211> LENGTH: 442
146 <212> TYPE: PRT
147 <213> ORGANISM: Moraxella catarrhalis
149 <400> SEQUENCE: 4
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153          20          25          30
154 Phe Val Asp Glu Val Arg Ser Lys Asn Asp Leu Gly Gln Asp Asn Glu
155          35          40          45
156 Leu Leu Ile Gly Val Gln Ser Ala Thr Gln Ser Ala Ser Thr Asp Thr
157          50          55          60
158 Ala Asn Pro Leu Asp Glu His Glu Pro Glu Leu Tyr Thr Thr Ala Leu
159 65          70          75          80
160 Glu Asn Lys Thr Met Leu Ile Asn Cys Ser Ala Leu Asn Gln Asp Ile
161          85          90          95

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162 Met Arg Leu Ala Cys Tyr Asp Thr Leu Val His Gly Glu Thr Pro Ala
163           100           105           110
164 Val Ile Lys Thr Lys Arg Ser Ile Arg Leu Asp Glu Thr Ile Trp Gln
165           115           120           125
166 Thr Ile Lys Gly Lys Pro Gln Val Val Tyr Gln Glu Thr Thr Asp Pro
167           130           135           140
168 Ile Phe Leu Met Gly Asn Glu Lys Gly Met Leu Thr Lys Lys Asp Ala
169 145           150           155           160
170 Lys Gln Leu Glu Tyr Ala Ala Lys Gln Phe Thr Pro Leu Ser Leu Ser
171           165           170           175
172 Phe Asp Leu Asp Arg Asn Asn Thr Pro Leu Trp Ser Ser Arg Pro His
173           180           185           190
174 Asn Pro Met Tyr Val Leu Pro Ile Phe Met His Gly Lys Pro Asn Arg
175           195           200           205
176 Ser Pro Asn Thr Pro Ser His Glu Ala Arg Gln Phe Thr Pro Asn Glu
177           210           215           220
178 Phe Arg Ala Pro Glu Leu Lys Phe Gln Val Ser Val Lys Val Lys Ala
179 225           230           235           240
180 Ala Glu Asp Leu Trp Gly Thr Asp Ser Asp Leu Trp Phe Gly Tyr Thr
181           245           250           255
182 Gln Gln Ser His Trp Gln Ile Phe Asn Gly Lys Asn Ser Arg Pro Phe
183           260           265           270
184 Arg Val His Asp Tyr Gln Pro Glu Ile Phe Leu Thr Gln Pro Val Tyr
185           275           280           285
186 Ser Asp Leu Pro Trp Asp Gly Lys Val Arg Met Ile Gly Met Gly Ala
187           290           295           300
188 Val His His Ser Asn Gly Glu Ser Ala Lys Leu Ser Arg Ser Trp Asn
189 305           310           315           320
190 Arg Ala Tyr Leu Met Ala Gly Met Glu Trp Lys Asn Leu Thr Val Met
191           325           330           335
192 Pro Arg Ile Trp Gly Arg Ile Phe Lys Glu Gly Ser Gly Ser Gln Pro
193           340           345           350
194 Asp Asp Asn Pro Asp Ile Leu Asp Tyr Tyr Gly Tyr Gly Asp Val Arg
195           355           360           365
196 Phe Leu Tyr Gln Leu Glu Asn Lys Ser Asn Ile Ser Gly Thr Val Arg
197           370           375           380
198 Tyr Asn Pro Arg Ser Gly Lys Gly Ala Leu Gln Leu Asp Tyr Val Tyr
199 385           390           395           400
200 Pro Leu Gly Lys Gly Ile Ser Gly Tyr Phe Gln Ile Phe Gln Gly Tyr
201           405           410           415
202 Gly Gln Ser Leu Ile Asp Tyr Asn His Glu Ala Thr Ser Phe Gly Val
203           420           425           430
204 Gly Leu Met Leu Asn Asp Trp Met Gly Leu
205           435           440
207 <210> SEQ ID NO: 5
208 <211> LENGTH: 1329
209 <212> TYPE: DNA
210 <213> ORGANISM: Moraxella catarrhalis
212 <400> SEQUENCE: 5

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213 atgaaagttt cactgtctac attgacttta tctattttgt catgttttgc tatcctagcc      60
214 attcagcaag caaaagctgt accaaatcct gtggcatttg ttgacgaagt acgcagtga      120
215 aatgatcttg ggcaagacaa tgaattaccc attgatgtcc aaagtgcgac acaatcagcg      180
216 tctactgata cggctaatac ttttagacgaa catgaaccag agctttatac gacagcttta      240
217 gaaaataaaa ccatgtctgat taactgtctc gcaacttaatc aagatatcat gcgtttggcg      300
218 tgctatgaca ctttggtgca tgggtgagacg ccagcggtaa ttaaaaccaa gcgttccatt      360
219 cgccttgatg aaacaatttg gcagaccatc aaaggcaaac cccaggttgt ctatcaagaa      420
220 acgacagatc cgattttttt aatgggtaat gaaaaaggca tgctgaccaa aaaagatgcc      480
221 aaacagcttg aatatgcagc caaacagttt acaccactga gcttatcatt tgatttagac      540
222 cgaataataa caccactttg gtcatcacga ccacacaatc cgatgtatgt attgccata      600
223 tttatgcacg gtaagcctaa tcgaagccca aatacgccca gtcatgaagc aagacaattt      660
224 accccaaatg aatttcgtgc ccctgaatta aaatttcaag tttctgttaa ggttaaagct      720
225 gctgaggatt tatgggggac ggattcagat ttatggtttg gatatacaca gcaatcgcac      780
226 tggcagattt ttaatggaaa aaactctcgt ccttttagag tacatgatta ccagccagag      840
227 attttcttaa ctcaacctgt atactcagac ttaccatggg atggcaaatg ccgcatgatt      900
228 ggcatgggtg cggtagatca ttccaatggt gaaagtgcc aactgtctcg ctcatggaat      960
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230 gggcgtatct ttaaagaggg tagtggcagc cagccagatg acaatcctga tatcttgac      1080
231 tattatggtt atggtgatgt gcgtttttta tatcaactag aaaataaaag taatatttca      1140
232 ggtacggtac gctataatcc acgctcaggc aaaggtgcgt tgcaacttga ctatgtctat      1200
233 ccgcttggtg aggggaattag tggctatttt caaatatttc aaggctatgg gcagtctttg      1260
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237 <210> SEQ ID NO: 6
238 <211> LENGTH: 442
239 <212> TYPE: PRT
240 <213> ORGANISM: Moraxella catarrhalis
242 <400> SEQUENCE: 6
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247 Phe Val Asp Glu Val Arg Ser Glu Asn Asp Leu Gly Gln Asp Asn Glu
248 35 40 45
249 Leu Pro Ile Asp Val Gln Ser Ala Thr Gln Ser Ala Ser Thr Asp Thr
250 50 55 60
251 Ala Asn Pro Leu Asp Glu His Glu Pro Glu Leu Tyr Thr Thr Ala Leu
252 65 70 75 80
253 Glu Asn Lys Thr Met Leu Ile Asn Cys Ser Ala Leu Asn Gln Asp Ile
254 85 90 95
255 Met Arg Leu Ala Cys Tyr Asp Thr Leu Val His Gly Glu Thr Pro Ala
256 100 105 110
257 Val Ile Lys Thr Lys Arg Ser Ile Arg Leu Asp Glu Thr Ile Trp Gln
258 115 120 125
259 Thr Ile Lys Gly Lys Pro Gln Val Val Tyr Gln Glu Thr Thr Asp Pro
260 130 135 140
261 Ile Phe Leu Met Gly Asn Glu Lys Gly Met Leu Thr Lys Lys Asp Ala
262 145 150 155 160
263 Lys Gln Leu Glu Tyr Ala Ala Lys Gln Phe Thr Pro Leu Ser Leu Ser

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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date